# Novel technologies can successfully activate positive behaviors of stakeholders involved in vaccine purchasing and usage

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### Abstract

transmissible diseases and highest quality standards, bringing new vaccines to market National Vaccine Plan-ensure a stable supply chain services), availability (e.g. mechanisms ensuring information chicken pox vaccine. The World Health Organization

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The vaccine segment is anticipated to be one of the fastest (WHO) reports that licensed vaccines are currently available growing one of the healthcare industry and several leading for twenty-five different preventable infections. The terms firms have stepped up vaccine investments in recent years. vaccine and vaccination are derived from Variolae vaccinae Unlike therapeutic agents, vaccines are administered to (smallpox of the cow), the term devised by Edward Jenner healthy individuals only once or very infrequently during a (who both developed the concept of vaccines and created the life time. Vaccines generate well-documented positive first vaccine) to denote cowpox. He used the phrase in 1798 externalities, yet their poor awareness and acceptability for the long title of his Inquiry into the Variolae vaccinae among vaccine endusers may contribute to resurgence of Known as the Cow Pox, in which he described the protective consequently trigger effect of cowpox against smallpox. In 1881, to honor Jenner, governmental interventions such as mandating vaccination. Louis Pasteur proposed that the terms should be extended to In addition to technical and clinical development per the cover the new protective inoculations then being developed. of requires carefully orchestrated programs targeting the recommended vaccines and achieve better use of existing multiple types of stakeholders along the entire value chain vaccines to prevent disease, disability, and death in the United and addressing their respective purchasing behavioral States-covers an extraordinarily broad set of issues. drivers. Against a backdrop of anti-vaccination buzz and Objectives include topics related to every point along the vaccine fatigue, successful global launch and sustainable journey from the manufacturer's production facility to the usage of a vaccine requires the development of a multi- prospective recipient of the vaccine: supply; purchase, pronged strategy addressing all aspects in relation to financing, and reimbursement for vaccines; vaccine acceptability (e.g. the motivation to immunize despite the management and administration; availability of and access to quasi-disappearance of the disease), accessibility (e.g. supply services; compensation for vaccine injuries; and data and technology needs (from provider-level reliability of supply) and affordability (e.g. tiered pricing information technology to disease surveillance, immunization policy taking country differences in per capita income into coverage, and safety surveillance capabilities). Also, vaccine account). Leveraging novel technological advances can supply and use issues are intertwined with safety illustrates a positively influence the ability to activate these levers characteristic of the entire plan: the absence of an explicit successfully. A vaccine is a biological preparation that vision statement and an extremely broad range of objectives provides active acquired immunity to a particular infectious and strategies without explanation of why certain items were disease. A vaccine typically contains an agent that resembles included in the plan and what remained on the "cutting room a disease-causing microorganism and is often made from floor," which items represent activities that are budgeted weakened or killed forms of the microbe, its toxins, or one of agency strategic priorities and expected to take place its surface proteins. The agent stimulates the body's immune regardless of the National Vaccine Plan, and which items system to recognize the agent as a threat, destroy it, and to represent novel contributions of the plan that are not explicitly further recognize and destroy any of the microorganisms part of other existing (agency) plans. When formulating its associated with that agent that it may encounter in the future. recommendations on priority actions in Goal 4, the committee Vaccines can be prophylactic (to prevent or ameliorate the considered the implications of current efforts to reorganize the effects of a future infection by a natural or "wild" pathogen), U.S. health care delivery system to support payment systems or therapeutic (to fight a disease that has already occurred, and ensure delivery of vaccines and to make concrete such as cancer). The administration of vaccines is called advances in the use of health information technology (HIT) to vaccination. Vaccination is the most effective method of improve health care performance and effectiveness. Although preventing infectious diseases; widespread immunity due to the fate of health care reform is uncertain at the time of this vaccination is largely responsible for the worldwide writing, considerable progress has been made with regard to eradication of smallpox and the restriction of diseases such HIT by building on the foundation set in 2004 by the as polio, measles, and tetanus from much of the world. The President's Executive Order 13335, establishing the Office of effectiveness of vaccination has been widely studied and the National Coordinator for Health Information Technology verified; for example, vaccines that have proven effective (ONCHIT) in the Department of Health and Human Services include the influenza vaccine, the HPV vaccine, and the (HHS), whose role is to lead the implementation of a nationwide HIT infrastructure that is interoperable and safeguards privacy (GAO, 2009). Changes in the ways health information is recorded, stored, and used can have enormous implications for the delivery of immunization services.Vaccination is a cost-effective, high-value component of preventive health care and is a good indicator of how well a health care delivery system functions. Under ideal circumstances, a health information system would indicate a patient's immunization status, remind a provider of needed vaccines for a given patient, record and facilitate the reporting of potential adverse events following immunization, help a provider obtain reimbursement for delivery of immunization services, allow public health officials and researchers to measure vaccine coverage, monitor rates of vaccine-preventable diseases, and facilitate studies of the relationship between vaccines and suspected adverse events. In reality, neither the delivery of health care nor the relevant information technology systems are E-mail: pm@mrgnadvisors.com constituted in ways that optimize the delivery of immunization among other preventive services.

# **Biography:**

Pierre A Morgon is the CEO of MRGN Advisors and Regional Partner for Switzerland at Merieux Developpement. He is also Chairman of the Board of Virometix, as well as Non-Executive Director to the Boards of Theradiag, of Eurocine Vaccines and of Vaccitech. He has over 30 years of experience in the global Life Science industry, especially with vaccines and immunotherapy, at the HELM of international operations, in C-level positions at global level and as CEO of start-ups. He is a Lecturer in several MBA programs in worldclass business schools and in Life Science conferences, as well as to the MassChallenge biotechnology incubator in Switzerland. He holds a Doctorate of Pharmacy, Master of Business Law and an MBA. He is also an Alumnus of INSEAD and IMD.